



Docket No. 00279.152US1

CPI Ref. No. 99-004

**Clean Version of the Amended Claims**

**INDUCTIVE COIL APPARATUS FOR BIO-MEDICAL TELEMETRY**

Applicant: Mark D. Amundson et al.

Serial No.: 09/541,452

Please replace claims 1 and 15 with their corresponding claims, as amended, below:

1. (Once Amended) An apparatus for communication with an implanted medical device, comprising:

a first telemetry coil that is substantially planar and adapted to inductively couple with the implanted medical device;

a magnetically permeable core surrounded by the first telemetry coil for increasing the flux density therewithin and thereby allowing a smaller outer dimension of the first telemetry coil necessary for communication with the implanted device; and

a communication lead having a first end and a second end, where the first end is communicatively coupled to the first telemetry coil and the second end adapted to be communicatively coupled to a medical device programmer.

15. (Once Amended) A telemetry coil for communicating with an implanted medical device, comprising: one or more loops of a conductive wire that define a predetermined outer dimension sufficient to allow communication between the first telemetry coil and the medical device, where the predetermined outer dimension is a diameter in a range of fifteen (15) to forty-six (46) centimeters, where the one or more loops of a conductive wire wound substantially in a common plane and concentrically around a central core, where the central core includes a magnetically permeable material, and where the loops are positioned around the central core to form a substantially constant gap between adjacent loops.